DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 3
PROPERTY ID #: 3610
COUNTY: Iredell

SOIL/SITE EVALUATION
***for* ON-SITE WASTEWATER SYSTEM**
(Complete all fields in full)

OWNER: Rowland Dev. — APPLICATION DATE: 3/18/16
ADDRESS: — Lot 3 — DATE EVALUATED: 4/15/16
PROPOSED FACILITY: SFR — PROPOSED DESIGN FLOW (.1949): 480 GPD — PROPERTY SIZE: .53 Acres
LOCATION OF SITE: 254 Oak Tree Rd Mtn NC — PROPERTY RECORDED: Yes
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut — TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	LL 5%/6	0-10	BSL/GR, WSBK	Fi, SS, SP	/	48"	C SAP INCL 28-48"	/	.3 18"-48"
		10-18	RCL, SBK	Fi, S, S					
		18-38	RCL, SBK	FR, SS, SP					
		38-48	RCL, SBK/MSBK	FR, SS, SP					
2	LL 5%/6	0-8	BCL, WSBK		/	48"	C- SAP INCL 15"-48"	/	.3
		8-38	RCL, SBK/SOME ABK	FR/Fi, SS, SP					
		38-48	RCL, SBK	FR, SS, SP					
3	LL 5%/6	0-38	RCL, ABK/SBK	Fi/FR, SS, SP	/	44"	C SAP INCL 15"-44"	/	.275
		38-44	RCL, SBK	FR, SS, SP					
4	LL	0-34	RCL, ABK	FR/Fi, SS, SP	/	45"	C SAP INCL 32"-45"	/	.275
		34-45	RCL, SBK	FR, SS, SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Approved	Approved
Site LTAR	.3	.275

OTHER FACTORS (.1946): —
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: SC
OTHER(S) PRESENT: James Rowland

COMMENTS: Pits soaked in sun. 2 weeks.

LEGEND

use the following standard abbreviations

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LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			EXP (Expansive)	M (Massive)
D (Drainage Way)						CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			MOIST	WET
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

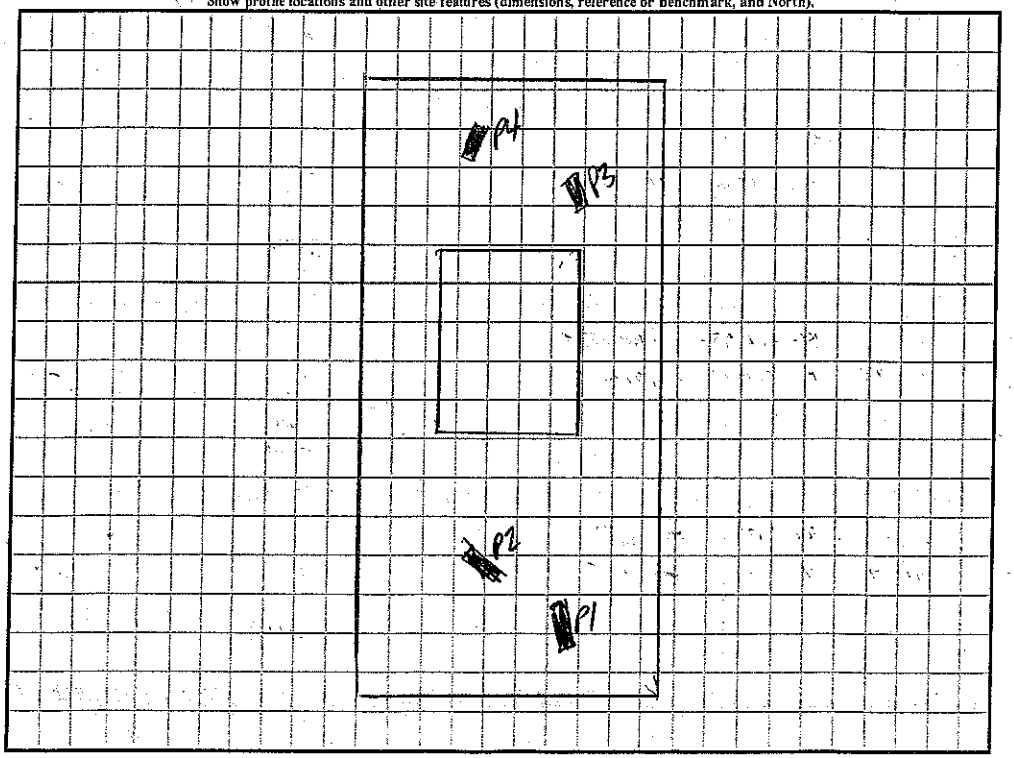
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

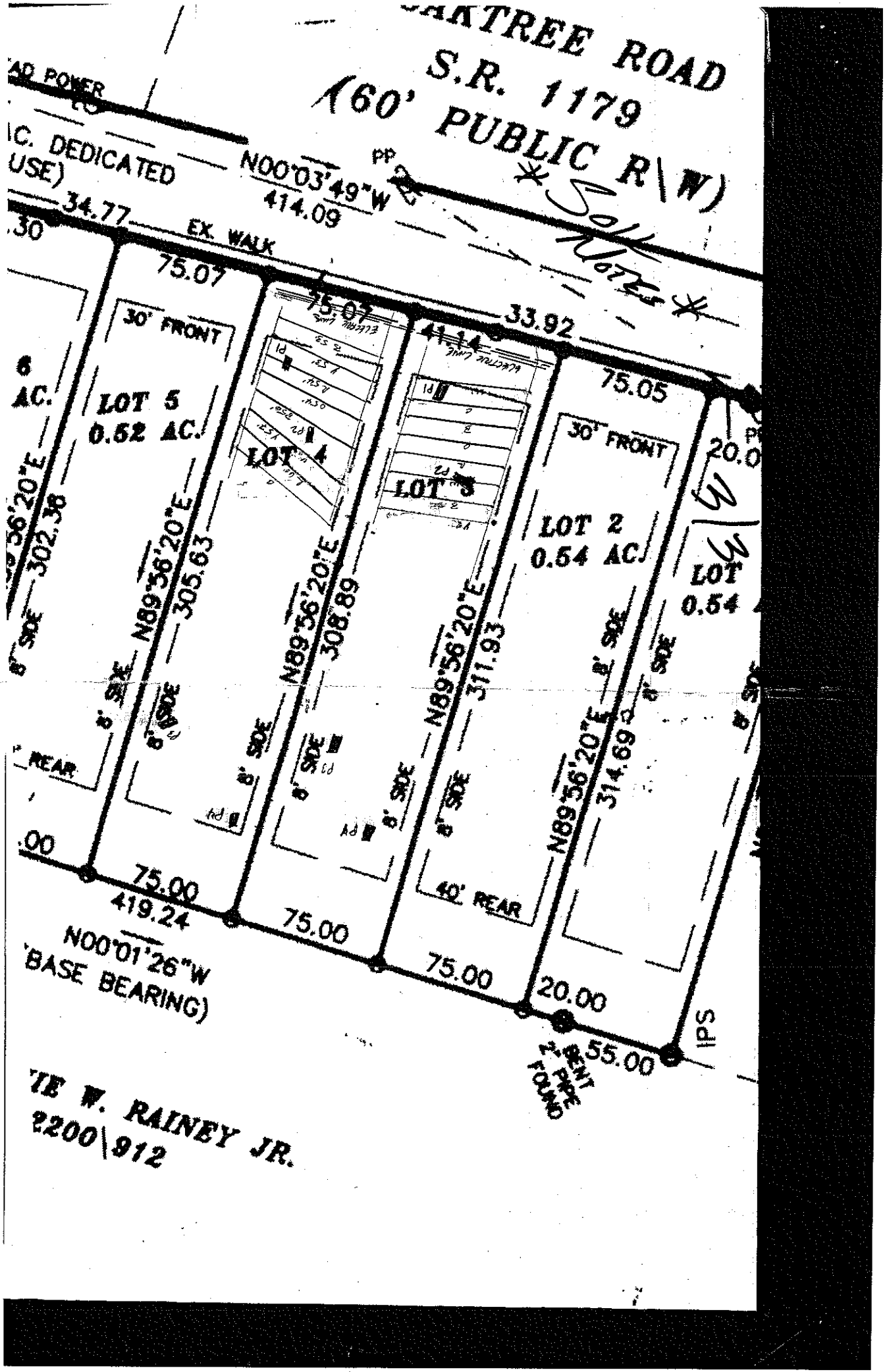
Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



OAK TREE TYP.


OAKTREE ROAD
S.R. 1179
(60' PUBLIC R\W)
AD POWER
C. DEDICATED
USE)
N00°03'49"W
414.09
34.77
EX. WALK
75.07
75.07
33.92
75.05
30' FRONT
LOT 5
0.52 AC.
LOT 4
LOT 3
LOT 2
0.54 AC.
N89°56'20"E
302.38
305.63
308.89
311.93
314.69
6' SIDE
8' SIDE
REAR
40' REAR
75.00
419.24
N00°01'26"W
BASE BEARING)
75.00
75.00
20.00
55.00
IPS
TIE W. RAINEY JR.
2200\912